



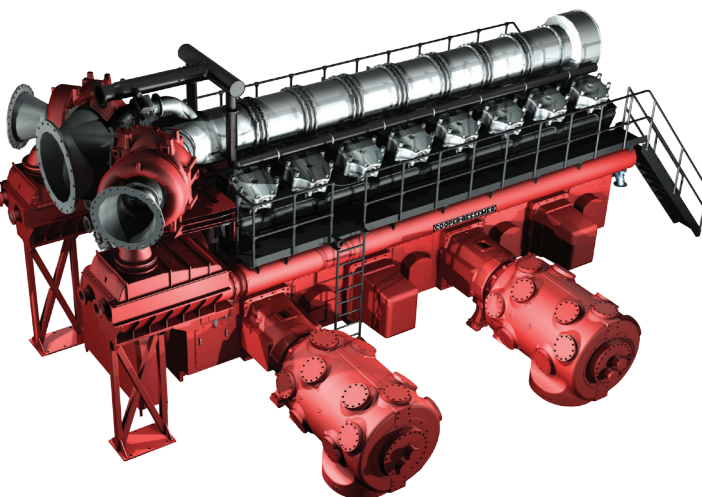
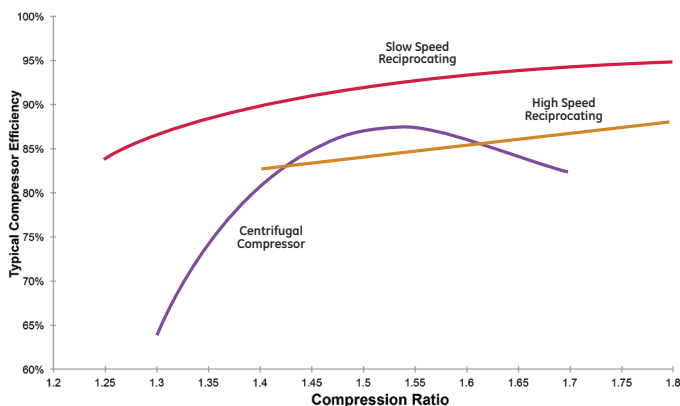
Cooper-Bessemer W-330C3

Efficient. Reliable. Flexible. Proven.

State-of-the-Art Technology

Since 1929, GE's Cooper-Bessemer* engines have been an integral part of the gas transmission industry. The reintroduction of the W-330C3 engine was driven by customers' needs for high reliability with a low total cost of ownership. This state-of-the-art engine is flexible, with a wide operating range, and meets NSPS emissions requirements.

Typical Compressor Efficiency vs. Ratio Comparison



Efficient

Cooper-Bessemer low-speed compressors are as much as 5% to 7% more efficient than centrifugal compressors and high-speed reciprocating separable compressors over a larger operating range.

Reliable

Slower operating speed equates to less wear and tear, expanding the life of the hardware. Cooper-Bessemer low-speed compressors offer, on average, double the run hours per outage of high-speed units.

Flexible

The Cooper-Bessemer W-330C3 engine can be operated between 45% and 100% of rated capacity.

Lower Cost of Ownership

With greater efficiency and less downtime, annual operating costs can be as much as 30% to 50% lower than both high-speed reciprocating and centrifugal compressors.

Unit Type	Energy Efficiency at 100% Load	Compressor Efficiency at 1.5 Compressor Ratio	Package Efficiency
Slow Speed Lean Burn Integral	40%	92%	37%

W-330 Performance Specifications

Model	8W-330	10W-330	12W-330	16W-330
Rated HP at 100° F (38° C)	4600	5800	7000	9300
Fuel rate Btu/bhp-h	6500	6500	6500	6500
Bore	18"	18"	18"	18"
Stroke	20"	20"	20"	20"
Max. rod load	150,000 lb	150,000 lb	150,000 lb	150,000 lb
Max. comp. cylinders	4	5	6	8

- 0.5 g/bhp-h NOx
- 0.5 g/bhp-h CH₂O*
- Ambient (° F) 100
- 2.0 g/bhp-h CO*
- Speed (rpm) 264 to 330
- Fully NSPS Compliant
- 0.7 g/bhp-h VOC*
- Torque (%) 70 to 100
- *Pre-Catalyst Emissions

Transmission Compressor Cylinders

Proven Performance and Reliability

CCGT-20

MWP: 1450 psig
Liner Dia. Range: 13" to 16"
(330 mm to 406 mm)

CDGTA-20

MWP: 1450 psig
Liner Dia. Range: 16" to 19"
(406 mm to 483 mm)

CEGTA-20

MWP: 1350 psig
Liner Dia. Range: 19" to 23"
(483 mm to 584 mm)



New Pre-Combustion Chamber and ePCC

Improved Control and Reduced Maintenance

- Improved Stability and Reliability
- Precise Control of the Pre-Chamber Air Fuel Ratio
- Reduced Volume/PCC NOx Contribution
- Eliminates PCC Check Valve Cleaning



New Head Design

Optimized Combustion

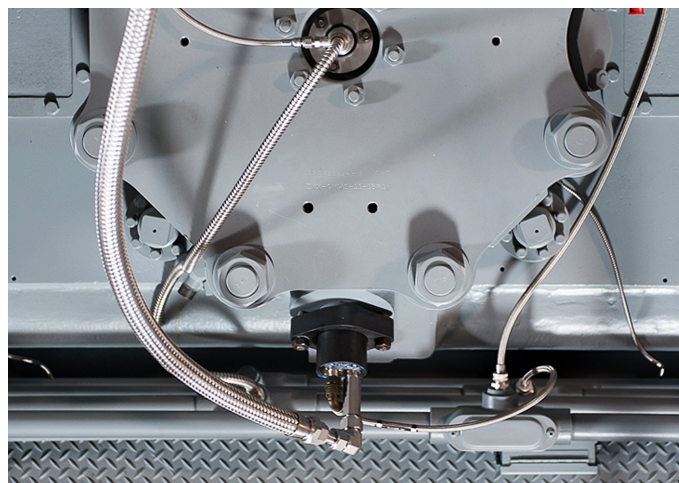
- Single Center-Mounted PCC
- PCC Indirectly Cooled
- Side-Mounted Sparkplug
- Better Flame Propagation
- Reduced Crevice Volume



Electronic Controls

Fewer Operational Excursions

- TER Based Air-Fuel Ratio
- Wider Operating Range
- Turbocharger Monitoring
- Data Trending



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